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Amcl.

continuation of application Serial No. 07/647,214, filed January 28, 1991 (now abandoned), which is a continuation of application Serial No. 07/494,857, filed March 14, 1990 (now abandoned), which is a continuation of application Serial No. 07/273,635, filed November 18, 1988 (now abandoned), which is a continuation of application Serial No. 07/771,248, filed August 30, 1985 (now abandoned).

BACKGROUND OF THE INVENTION--

Page 1, line 4, delete "The" and insert therefor --This--;
line 18, after "Subsequently", insert a comma; and
delete "have been" and insert therefor --were--;
line 24, after "84 23659" insert a comma;
between lines 27 and 28, insert:

--SUMMARY OF THE INVENTION--

line 29, delete "should" and insert therefor
--are--; and delete "also be";
line 30, after "viruses" insert a comma;
line 31, delete ")" and insert therefor --or "Human
Immunodeficiency Virus Type 1" or simply "HIV-1"--;

line 31, after "but also" insert --new means
that--; and
line 33, delete "DNA" and insert therefor --RNA--.
Page 2, line 13, after "Finally" insert a comma; and
line 16, delete "syndroms" and insert therefor
--syndromes--.

Page 3, line 22, delete "whole-DNA" and insert therefor
--whole DNA--;
/line 23, delete "nucelotidie" and insert therefor
--nucleotide--;
/line 24, delete "fig." and insert therefor
--Figs.---; and
between lines 27 and 28, insert:

--BRIEF DESCRIPTION OF THE DRAWINGS--.

Page 4, line 4, delete "nucleotidic" and insert therefor
--nucleotide--;
/line 5, delete "peptidie" and insert therefor
--peptide--;
/line 7, delete "nucleotidie" and insert therefor
--nucleotide--;
/line 9, delete "enveloppe" and insert therefor
--envelope--;
/line 10, delete "peptidic" and insert therefor
--peptide--;
/line 11, delete "responds" and insert therefor
--respond--;

between lines 11 and 12, insert:

--DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS--

/line 13, delete "was" and insert therefor --were--;
/line 20, delete "the" and insert therefor --The--;
/line 26, delete "SmaI" and insert therefor
--SmaI--; and

/line 27, delete "T".
 /Page 5, line 12, delete "Hind III" and insert therefor
 --HindIII--; and
 /line 13, delete "this" and insert therefor
 --This--.
 /Page 7, line 6, delete "Sanger et al (Sanger" and insert
 therefor --Sanger et al. Sanger--;
 /line 8, delete "the" and insert therefor --The--;
 /line 10, after "(1983" insert --)--;
 /line 18, delete "nucleotidie" and insert therefor
 --nucleotide--;
 /line 20, delete "Hind III" and insert therefor
 --HindIII--;
 /line 21, delete "AAG. ." and insert therefor
 --AAG . . .--;
 /line 25, delete "I.e." and insert therefor --That
 is,--;
 /line 28, delete "tidic" and insert therefor
 --tide--;
 /line 29, delete "aminoacid" and insert therefor
 --amino acid--; and
 /line 30, delete "at" and insert therefor --of--.
 /Page 8, line 19, delete "nucleotidic" and insert therefor
 --nucleotide--; after "4" insert a comma;

/line 22, delete "theoritical" and insert therefor
--theoretical--; delete "all over" and insert therefor --over
all--;

/line 23, delete "successives" and insert therefor
--successive--; delete "nucleotidic" and insert therefor
--nucleotide--;

/line 28, after "fig. 2", delete ")"; and
/line 30, delete "nucleotidic" and insert therefor
--nucleotide--.

/Page 9, lines 3 and 5, delete "nucleotidic" and insert
therefor --nucleotide--;

/line 8, delete "aminoacid" and insert therefor
--amino acid--;

/line 14, delete "aminoacid" and insert therefor
--amino acid--;
/line 15, delete "nucleotidic" and insert therefor
--nucleotide--;

/line 19, delete "aminoacid" and insert therefor
--amino acid--; and
/line 22, delete "aminoacids" and insert therefor
--amino acids--.

/Page 10, line 5, delete "nucleotidic" and insert therefor
--nucleotide--;
/line 6, delete "nucleotidic" and insert therefor
--nucleotide--;

~~/~~line 15, delete "nucleotidic" and insert therefor
--nucleotide--;
~~/~~line 17, delete "idic" and insert therefor
--ide--;
~~/~~line 18, delete "polypeptidic" and insert therefor
--polypeptide--;
~~/~~line 22, delete "th" and insert therefor --the--;
~~/~~line 23, delete "feature" and insert therefor
--features--;
~~/~~line 26, after "18" insert a comma;
~~/~~line 28, after "difficulties" delete the period;
~~/~~line 29, after "13" change the period to a comma;
line 30, after "15" delete the period and insert
therefor a comma and;
~~/~~line 32, after "Thus" insert a comma; after
"instance" insert a comma; and
~~/~~line 36, after "words" insert a comma.
Page 11, line 6, delete "etc..." and insert therefore
--etc.--;
~~/~~line 10, delete "reference" and insert therefor
--Reference--;
~~/~~line 12, delete "aminoacid" and insert therefor
--amino acid--;
~~/~~line 14, delete "aminoacid" and insert therefor
--amino acid--;

/line 15, after "Thus" insert a comma; delete "in"
and insert therefor --is--;

/line 19, delete "hydrophylic" and insert therefor
--hydrophilic--;

/line 22, after "Consequently" insert a comma;

/line 26, delete "env-proteins" and insert therefor
--env proteins--;

/line 27, delete "aminoacid" and insert therefor
--amino acid--;

/line 28, delete "aminoacids" and insert therefor
--amino acids--;

/line 30, delete ")" and insert therefor a comma;

/line 31, after "extend" insert a comma; and

/line 32, after "respectively" insert a comma.

/Page 12, line 4, delete "they" and insert therefor
--They--; and

/line 9, delete "aminoacids" and insert therefor
--amino acids--.

/Page 13, line 32, delete "exemplified" and insert therefor
--exemplified--;

line 33, delete "reference is for instance" and
insert therefore --Reference is, for instance,--; and

/line 36, before "calcium" insert --such as--.

/Page 14, line 3, after "yeast" delete "-";

/line 7, delete "Recombinant" and insert therefor
--Recombinants--;

/line 21, delete "antihemophylic" and insert
therefore --antihemophilic--; after "factors" insert a comma;
/line 26, delete "said", after "support" insert a
comma;

/line 27, after "virion" insert a comma; and
/line 35, after "symptoms" delete ",".

/Page 15, line 3, delete "comprise" and insert therefor
--comprises--;

/line 6, after "tissues," insert --and--;
/line 11, delete "evolutionnary" and insert
therefor --evolutionary--;

/line 14, after "non" insert -- - --;

/line 15, after "can" insert --also--;

/line 16, delete "also";

/line 30, after "Conversely" insert a comma; and

/line 34, after "antibodies" insert a comma.

/Page 16, line 1, after "invention" insert a comma;

/line 6, after "Thus" insert a comma;

/line 12, change "above mentioned" to --above-
mentioned--;

/line 14, after "Finally" insert a comma;

/line 17, after "oligopeptides" insert a comma;

/line 18, delete "pharmaceutical" and insert
therefor --pharmaceutically--;

/line 19, after "Preferably" insert a comma;

/line 21, delete "aminoacid" and insert therefor
--amino acid--;

/line 22, delete "for" and insert therefor
--from--; delete "genomas" and insert therefor --genomes--;

/line 30, after "host" insert a comma;

/line 32, after "clarity" insert a comma; and

/line 33, delete "reference" and insert therefor

--Reference--.

/Page 17, line 2, delete "genoma" and insert therefor
--genome--;

/line 3, after "Finally" insert a comma;

/line 6, after "Particularly" insert a comma; and

/line 10, after "defined" delete ", of a".

Page 20, line 3, after "virus" insert --, which has been

designated Human Immunodeficiency Virus Type 1 (HIV-1)--.

IN THE CLAIMS:

amdt/A Please cancel claims 1-10 and add the following new claims.

--11. A nucleotide sequence of Human Immunodeficiency Virus Type 1 (HIV-1), wherein the nucleotide sequence is free of particles of said virus and the sequence is selected from the group consisting of:

(a) the sequence encoding ORF-Q comprising the following nucleotides:

4480	4490	4500	4510	4520	4530
TGC	CAAGAAGAAA	ACCAAAGATC	ATTAGGGATT	ATGGAAAACA	GATGGCAGGT
4540	4550	4560	4570	4580	
GATGATTGTG	TGGCAAGTAG	ACAGGATGAG	GATTAGAACA	TGGAAAAGTT	